

# BACHELOR OF SCIENCE IN MIDDLE EDUCATION

The Bachelor of Science in Middle Education degree program provides students the opportunity to develop the required knowledge, skills and dispositions to obtain a licensure to teach math and/or science in Grades 6-8. The broad curriculum is embedded with opportunities to develop content knowledge as well as diverse field experiences at the Secondary level. Information on program admittance and graduation requirements, field experiences, state license standards, and passing scores on Praxis and State Assessments are posted on the School of Education's webpage. Students are prepared to meet the Virginia Licensure Regulations for School Personnel and the Council for the Accreditation of Education Preparation (CAEP) Standards and Assessments, including passing the VCLA and Praxis Subject Assessments in Math and/or General Science.

## I. Summary of Graduation Requirements

General Education Requirements 40  
Professional Education Requirements: 38  
Sub-area/Concentration: 42

## II. Endorsement Areas with Test Codes

This degree program is an undergraduate option for an initial license in Middle Education with add-on endorsements in Math or Laboratory Science. Teacher candidates will be restricted to teaching in the area listed on the license.  
Praxis II Middle School Science (5442)  
Praxis II Middle School Math (5164)

## III. Academic Preparation Courses

A. VDOE Requirements for Mathematics concentration: Coursework in algebra, geometry, probability and statistics, applications of mathematics, and methods of teaching mathematics to include middle school mathematics content (24 semester hours)

a. NSU Requirements: MTH 102 Essentials of Algebra, MTH 105 Intermediate Algebra; MTH 141 Elements of Math for Teachers, MTH 142 Elements of Math for Teachers II, MTH 151 College Algebra, MTH 131 Pre-calculus for Business Majors; MTH 132 Calculus for Business Majors; MTH 310 Discrete Math for Teachers; SED 380 Foundations of Secondary School Methods; SPE 345 Teaching Math to Exceptional Learners (30 Semester Hours)

B. VDOE Requirements for Laboratory Science concentration: Coursework in each of the following: biology, chemistry, physics, and Earth and space science; and a laboratory course is required in each of the four areas (24 semester hours)

b. NSU Requirements: BIO 100/ BIO 100L General Biology, BIO 105/105L Human Biology; CHM 100/100L Chemistry: Man and the Environment; SCI 101/101L Physical Science for

Non-Science Majors; BIO 271/271L Ecology; SCI 381/381L Science for Teachers (24 hours)

## IV. Required Professional Education Courses for Middle Education License

1. Human Growth and Development (EDU 486 Human Growth and Development): 3 hours
2. Curriculum and Instruction (SED 380 Foundation of Secondary Methods): 3 hours
3. Classroom and Behavior Management (EDU 381 Classroom and Behavior Management): 3 hours
4. Assessment of and for Learning (SED 380 Foundations of Secondary Methods and SED 499 Student Teaching): 3 hours minimum
5. Foundation of Education (EDU 201 Foundation of Education): 3 hours
6. Language Acquisition and Reading Development (EED 450 Teaching Literacy in Elementary Schools, EED 490 Diagnostic Reading, and SED 405 Reading in the Content Areas): 6 hours minimum
7. Clinical Experiences (EDU 201 Foundations of Education; SED380 Foundations of Secondary Education; SED 499 Student Teaching): 10 Weeks and 150 hours of direct teaching in endorsement area

Subject Area	Credits
General Education Requirements ( <a href="https://catalog.nsu.edu/undergraduate/academic-information/general-education-core-program/">https://catalog.nsu.edu/undergraduate/academic-information/general-education-core-program/</a> )	40
Professional Education Requirements	38
Sub-area/Concentration	42
<b>Total Credit Hours</b>	<b>120</b>

Course	Title	Credits
<b>First Year</b>		
BIO 100 & 100L	Biological Science and Biological Science Lab	4
CSC 150	Computer Literacy	3
ENG 101	College English I	3
MTH 102	Essentials of Algebra	4
SEM 101	Spartan Seminar 101	1
EDU 100	Career Analysis in Education, Inquiry-Based Approaches to Teaching	1
ENG 102	College English II	3
MTH 151	College Algebra	3
HED 100	Personal and Community Health	2
EDU 101	Inquiry-Based Lesson Design	1
PED 100	Fundamentals of Fitness for Life	1
Social Science Elective		3
SOC 101	Introduction to the Social Sciences	
HIS 101	History of World Societies II	
HIS 103	United States History Since 1865	
BUS 175	Intro to Business & Entrepreneurship	
ECN 200	Basic Principles of Economics	
SCI 101 & 101L	Physical Science for Non-Science Majors and Physical Science Laboratory	4

SEM 102	Spartan Seminar 102	1	SED 499	Directed Teaching (internship)	12
<b>Credits</b>			<b>Credits</b>		
<b>34</b>			<b>27</b>		
<b>Second Year</b>			<b>Total Credits</b>		
			<b>120</b>		
EDU 201	Foundations of Education	3			
Cultural Perspectives		3			
ENG 383	African American Literature				
MUS 234	African American Music				
HIS 335	African American History				
HIS 336	African American History Since 1865				
HRP 320	African American Health				
HIS 371	African History/Cultures 1600-PRESENT				
MTH 153	College Algebra & Trigonometry	3			
MTH 141	Elements of Mathematics for Teachers I	3			
BIO 105 & 105L	Human Biology and Human Biology Lab	4			
SEM 201	Spartan Seminar 201	1			
Humanities Elective		3			
ENG 207	Introduction to World Literature				
FIA 201	Basic Art Appreciation				
MUS 301	Music Appreciation				
MTH 131	Pre-Calculus for Business Majors	3			
MTH 142	Elements of Mathematics for Teachers II	3			
CHM 100	Man & Environment	3			
CHM 100L	Man & Environment Lab	1			
<b>Credits</b>		<b>30</b>			
<b>Third Year</b>					
SED 380	Foundations of Secondary School Methods	3			
SCI 381 & 381L	Science for Teachers and Science for Teachers Laboratory	4			
MTH 132	Calculus for Business Majors	3			
ENG 285	Public Speaking	3			
SPE 345	Tchgng Math to Exceptional Learners	3			
BIO 271 & 271L	Ecology and Ecology Laboratory	4			
EED 490	Diagnostic Reading	3			
Cultural Perspectives		3			
ENG 383	African American Literature				
MUS 234	African American Music				
HIS 335	African American History				
HIS 336	African American History Since 1865				
HRP 320	African American Health				
HIS 371	African History/Cultures 1600-PRESENT				
MTH 310	Discrete Mathematics	3			
<b>Credits</b>		<b>29</b>			
<b>Fourth Year</b>					
EED 450	Teaching Literacy in Elementary School	3			
EDU 420	Education Technology	3			
EDU 486	Human Growth and Development	3			
SED 405	Reading in the Content Area	3			
EDU 381	Classroom and Behavior Management	3			